

What is claimed is:

1. A fastening and cutting device for cutting and closing a section of tubular tissue, comprising:

5 a first jaw;

a second jaw disposed in parallel and opposed correspondence with the first jaw;

a vertical driver means coupled to said first jaw, which driver means causes the first jaw to linearly travel along an axis perpendicular to the axis of parallel
10 correspondence of the first and second jaw, such that the first jaw may separate from the second jaw when the driver means is biased for opening of the jaws, and to close toward the second jaw when the driver means is biased for closing of the jaws; and

a cutting and stapling means disposed within the second jaw and coupled with a horizontal driver means for cutting and stapling a section of tissue disposed between
15 the first and second jaws once the first jaw has been closed onto the second jaw.

2. The device of claim 1, wherein the vertical driver means comprises at least one threaded turning shaft, and wherein the first jaw includes a corresponding at least one threaded bore for receiving therethrough said threaded turning shaft, whereby rotation
20 of the turning shaft causes the first jaw to move axially along the turning shaft away from, or toward the second jaw, in accordance with the rotational direction of the turning shaft.

3. The device of claim 2, wherein the vertical driver means comprises a pair of
25 threaded turning shafts and a horizontal gearing shaft disposed in turning an gearing relationship with said pair of threaded turning shafts, the rotation of the horizontal gearing shaft thereby causing the first jaw to translate.

4. The device of claim 1, wherein the cutting and stapling means comprises a blade
30 and wedge seated in a wedge guide channel formed in the second jaw.

5. A fastening and cutting attachment for use with an electromechanical driver device for cutting and closing a section of tubular tissue, comprising:

a first jaw;

5 a second jaw disposed in parallel and opposed correspondence with the first jaw;

a vertical driving mechanism means coupled to said first jaw, said driving mechanism being actionably coupleable to the electromechanical driver device, which driver means causes the first jaw to linearly travel along an axis perpendicular to the axis of parallel correspondence of the first and second jaw, such that the first jaw may
10 separate from the second jaw when the driver means is biased for opening of the jaws, and to close toward the second jaw when the driver means is biased for closing of the jaws.

6. The device of claim 5, wherein the vertical driver means comprises at least one
15 threaded turning shaft, and wherein the first jaw includes a corresponding at least one threaded bore for receiving therethrough said threaded turning shaft, whereby rotation of the turning shaft causes the first jaw to move axially along the turning shaft away from, or toward the second jaw, in accordance with the rotational direction of the turning shaft.

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7. The device of claim 6, wherein the vertical driver means comprises a pair of threaded turning shafts and a horizontal gearing shaft disposed in turning an gearing relationship with said pair of threaded turning shafts, the rotation of the horizontal gearing shaft thereby causing the first jaw to translate.

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8. The device of claim 5, further including a cutting and stapling means disposed in the second jaw, said cutting and stapling means being actionably coupled to said electromechanical driver device.